FIGURE P-8

HIGH RESOLUTION PALYNOMORPH DISTRIBUTION CHART

MICROPALEO CONSULTANTS

WELL NAME	:GULF PORT HEIDEN UNIT NO.1	API NUMBER	:50-061-20001	KELLY BUSHING	:37 FEET
PROJECT	:NAS BASIN BIOSTRATIGRAPHY PROJECT	LOCATION	:SEC. 20, T37S/R59W SM	BASIN :NORTH ALEUTIAN	DATE :JUNE 2005
PALYNOLOGIST	:HIDEYO HAGA	TOTAL DEPTH	:15,015 FEET	STATE :ALASKA	PROJECT :25-104

RELATIVE ABUNDANCE KEY

- : NOT PRESENT
- : 1 TO 1 VERY RARE
- : 2 TO 5 RARE
- : 6 TO 15 FREQUENT
- : 16 TO 30 COMMON
- : 31 TO 300 ABUNDANT
- : 501 TO 5000 PROLIFIC
- * : All Specimens Reworked.
- ** : Some Specimens Reworked.

SPECIES LOCATION INDEX

SPORE - POLLEN: [4] Alnipollenites spp. [23] Areosphaeridium diktyoplokus * [9] Betulaceae [11] Caryapollenites sp. [28] Cordosphaeridium ? sp. [13] Deltoidospora spp. [27] Ericaceae [20] Gonyaulacysta cladophora * [16] Gonyaulacysta jurassica * [30] Indet. Chorate dinocyst [12] Juglanspollenites sp. [3] Laevigatosporites spp. [19] Lejeunecysta hyalina [25] Lejeunecysta sp. A [14] Lycopodiumsporites spp.

MICROPLANKTON: [2] Onagraceae [21] Operculodinium? sp. [8] Osmundacidites spp. [5] Polypodiaceae [15] Pterocaryapollenites sp. [22] Selenopemphix sp. PC [17] Selenopemphix spp. [18] Sirmiodinium grossi * [10] Sphagnumsporites spp. [7] Taxodiaceae [6] Tsugaepollenites spp. [26] Tuberculodinium vancampoae [29] Ulmipollenites sp. [1] Undifferentiated bisaccates [24] Xandarodinium variabile

SPORE-POLLEN DIVERSITY (FILLED) 0 5 10 15 20 25

MICROPLANKTON DIVERSITY (FILLED) 0 5 10 15 20

TOTAL SPORE-POLLEN 0.8 10 100 1000 5000

TOTAL MICROPLANKTON 0.8 10 100 1000 5000

SPORE - POLLEN: [1] Undifferentiated bisaccates [2] Onagraceae [3] Laevigatosporites spp. [4] Alnipollenites spp. [5] Polypodiaceae [6] Tsugaepollenites spp. [7] Taxodiaceae [8] Osmundacidites spp. [9] Betulaceae [10] Sphagnumsporites spp. [11] Caryapollenites sp. [12] Juglanspollenites sp. [13] Deltoidospora spp. [14] Lycopodiumsporites spp. [15] Pterocaryapollenites sp.

MICROPLANKTON: [16] Gonyaulacysta jurassica * [17] Selenopemphix spp. [18] Sirmiodinium grossi * [19] Lejeunecysta hyalina [20] Gonyaulacysta cladophora * [21] Operculodinium? sp. [22] Selenopemphix sp. PC [23] Areosphaeridium diktyoplokus * [24] Xandarodinium variabile [25] Lejeunecysta sp. A [26] Tuberculodinium vancampoae [27] Ericaceae [28] Cordosphaeridium ? sp. [29] Ulmipollenites sp. [30] Indet. Chorate dinocyst

PERIOD/EPOCH	AGE/ZONE	SAMPLE DEPTH (FEET)
TERTIARY	PLEISTOCENE	300-390, 390-480, 480-570, 570-660, 660-750, 750-840, 840-930, 930-1020, 1020-1110, 1110-1200, 1200-1290, 1290-1380, 1380-1470, 1470-1560, 1560-1650, 1650-1740, 1740-1830, 1830-1920, 1920-2010, 2010-2100, 2100-2190, 2190-2280, 2280-2370, 2370-2460, 2460-2550, 2550-2640, 2640-2730, 2730-2820, 2820-2910, 2910-3000, 3000-3090
	LATE MIOCENE TO PLIOCENE	3090-3180, 3180-3270, 3270-3360, 3360-3450, 3450-3540, 3540-3630, 3630-3720, 3720-3810, 3810-3900, 3900-3990, 3990-4080, 4080-4170, 4170-4260, 4260-4350, 4350-4440, 4440-4530, 4530-4620, 4620-4710, 4710-4800, 4800-4890, 4890-4980, 4980-5070, 5070-5160, 5160-5250, 5250-5340, 5340-5430, 5430-5520, 5520-5610, 5610-5700, 5700-5790, 5790-5880, 5880-5970, 5970-6060, 6060-6150, 6150-6240, 6240-6330, 6330-6420, 6420-6510, 6510-6600, 6600-6690, 6690-6780, 6780-6870, 6870-6960, 6960-7050, 7050-7140, 7140-7230, 7230-7320, 7320-7410, 7410-7500, 7500-7590, 7590-7680, 7680-7770, 7770-7860, 7860-7950, 7950-8040, 8040-8130, 8130-8220, 8220-8310, 8310-8400, 8400-8490, 8490-8580, 8580-8670, 8670-8760, 8760-8850, 8850-8940, 8940-9030, 9030-9120
	UNDIFF.	9120-9210, 9210-9300
INDETERMINATE	INDETERMINATE	9300′ TO 15,015′ IN VOLCANICS